



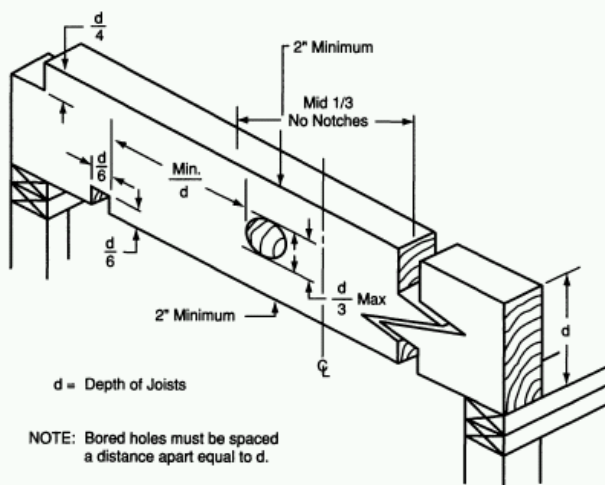
County of San Diego, Planning & Development Services

CUTTING NOTCHING AND BORING OF FLOOR JOISTS

BUILDING DIVISION

This sheet portrays the requirements regarding cutting, notching and boring of floor joists and studs contained in Section 2320.8.3 of the 1997 UBC.

A. CUTTING, NOTCHING & BORING OF WOOD FLOOR JOISTS



NOTE: Bored holes must be spaced a distance apart equal to d.

B. BORED HOLES IN WOOD STUDS (Section 2320.11.10)

Bearing Walls

Any wood stud may be bored not in excess of 40% of the stud width. Boreings shall not be made at the same section of a stud where a cut or notch has been made.

Table No. 1	Stud Size	Max. Diameter of Bored Hole	Min. Edge Distance After Boring
	2" x 4"	1-3/8"	5/8" each side of hole
	2" x 6"	2-3/16"	5/8" each side of hole

Non Bearing Walls

Studs may be bored not in excess of 60% of the stud width in either (1) non bearing stud walls, or (2) bearing walls where studs are doubled and not more than two such successive doubled studs are so bored.

Boreings shall not be made at the same section where a cut or notch has been made.

Table No. 2	Stud Size	Max. Diameter of Bored Hole	Min. Edge Distance After Boring
	2" x 3"	1-1/4" *	5/8" each side of hole
	2" x 4"	2"	5/8" each side of hole
	2" x 6"	3-1/4"	5/8" each side of hole

* Edge Distance Controls

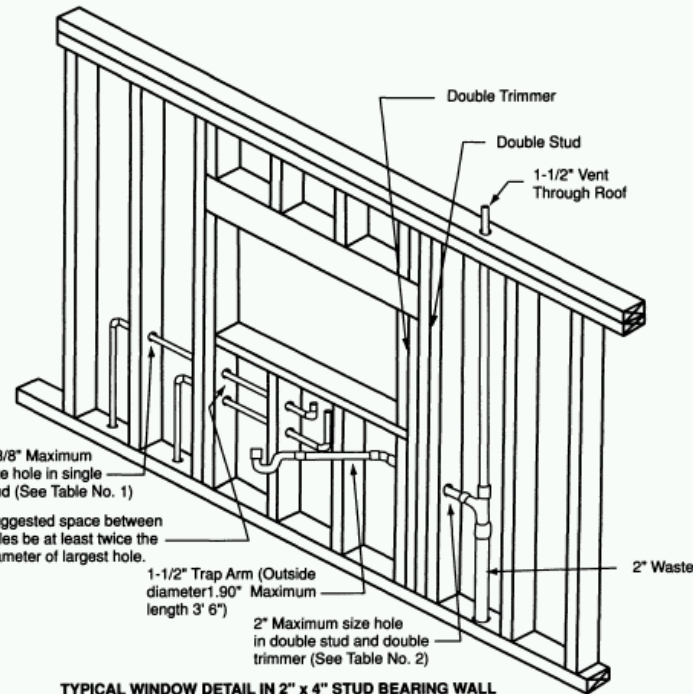
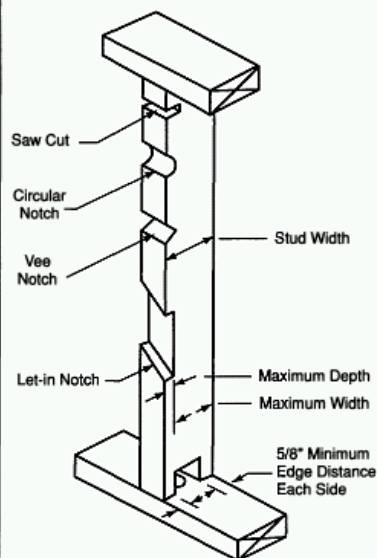
C. CUTTING AND NOTCHING WOOD STUDS (Section 2320.11.9)

Bearing Walls

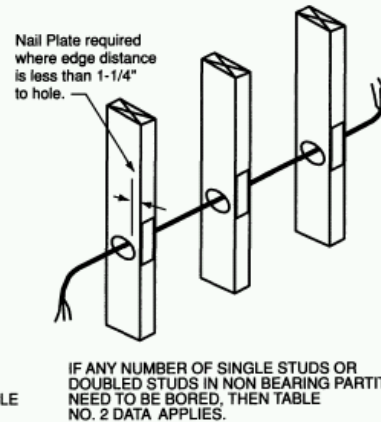
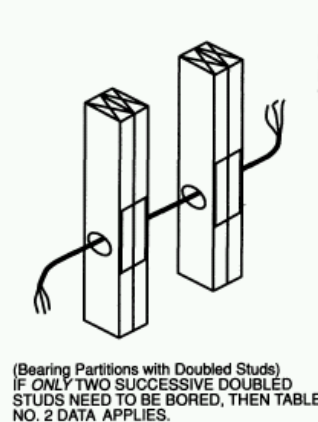
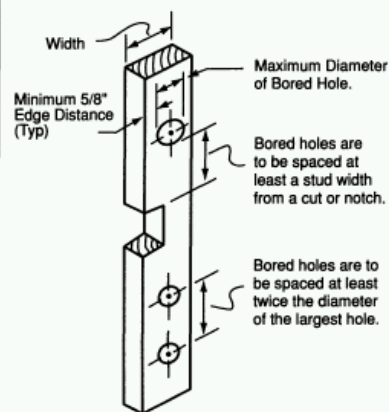
Table No. 3	Stud Size	Max. Depth of Edge Cut or Notch	Min. Wood Width Remaining After Cut or Notch
	2" x 4"	7/8"	2-5/8"
	2" x 6"	1-3/8"	4-1/8"

Non Bearing Walls

Table No. 4	Stud Size	Max. Depth of Edge Cut or Notch	Min. Wood Width Remaining After Cut or Notch
	2" x 3"	1"	1-1/2"
	2" x 4"	1-3/8"	2-1/8"
	2" x 6"	2-1/8"	3-3/8"



TYPICAL WINDOW DETAIL IN 2" x 4" STUD BEARING WALL



(Bearing Partitions with Doubled Studs)
IF ONLY TWO SUCCESSIVE DOUBLED STUDS NEED TO BE BORED, THEN TABLE NO. 2 DATA APPLIES.

IF ANY NUMBER OF SINGLE STUDS OR DOUBLED STUDS IN NON BEARING PARTITIONS NEED TO BE BORED, THEN TABLE NO. 2 DATA APPLIES.

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